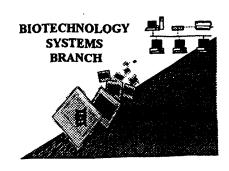


RAW SEQUENCE LISTING ERROR REPORT





The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

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Application Serial Number: 09/068, 253

MAR 0 5 2001

Source:

/653

TECH CENTER 1600/2900

Date Processed by STIC:

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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

SERIAL NUMBER:

ERROR DETECTED SUGGESTED CORRECTION

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE The number/text at the end of each line "wrapped" down to the next line. Wrapped Nucleics This may occur if your file was retrieved in a word processor after creating it. RECEIVED Please adjust your right margin to .3, as this will prevent "wrapping". MAR 0 5 2001 The amino acid number/text at the end of each line "wrapped" down to the next line. Wrapped Aminos This may occur if your file was retrieved in a word processor after creating it. TECH CENTER 1600/2900 Please adjust your right margin to .3, as this will prevent "wrapping". Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Misaligned Amino Acid between the numbering. It is recommended to delete any tabs and use spacing between the numbers. Numbering This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Non-ASCII Please ensure your subsequent submission is saved in ASCII text so that it can be processed. Sequence(s) ____ contain n's or Xaa's which represented more than one residue. _ Variable Length As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid Patentin ver. 2.0 "bug" _. Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences. Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence: Skipped Sequences (2) INFORMATION FOR SEQ ID NO:X: (OLD RULES) (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s). Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence. Skipped Sequences (NEW RULES) <210> sequence id number <400> sequence id number 000 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing. (NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. Use of <213>Organism are missing this mandatory field or its response. Sequence(s) _ (NEW RULES) Use of <220>Feature are missing the <220>Feature and associated headings Sequence(s) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" (NEW RULES) Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)

Instead, please use "File Manager" or any other means to copy file to floppy disk.

Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted

file Tesalting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).

Patentin ver. 2.0 "bug"





MAR 0 > 2001

DATE: 02/26/2001 TECH CENTER 1600/2900 RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/068,253 TIME: 16:41:00

Input Set : A:\19624051.app

Does Not Comply

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Output Set: N:\CRF3\02262001\I068253.raw
                                                                   Corrected Diskette Needed
      3 <110> APPLICANT: SHIMURA, Takesada
             TORIYAMA, Satsuki
      6 <120> TITLE OF INVENTION: CARTILAGE/ BONE INDUCING MATERIALS FOR REPARATION
                                                                            pp 1-2
      8 <130> FILE REFERENCE: 146.1286
     10 <140> CURRENT APPLICATION NUMBER: 09/068,253
     11 <141> CURRENT FILING DATE: 1998-06-09
     13 <150> PRIOR APPLICATION NUMBER: PCT/JP96/03333
     14 <151> PRIOR FILING DATE: 1996-11-14
     16 <150> PRIOR APPLICATION NUMBER: JP 7/322402
     17 <151> PRIOR FILING DATE: 1995-11-17
     19 <160> NUMBER OF SEQ ID NOS: 4
     21 <170> SOFTWARE: PatentIn Ver. 2.1
     23 <210> SEQ ID NO: 1
     24 <211> LENGTH: 357
     25 <212> TYPE: DNA
     26 <213> ORGANISM: Homo sapiens
     28 <220> FEATURE:
     29 <221> NAME/KEY: CDS
     30 <222> LOCATION: (1)..(357)
     31 <223> OTHER INFORMATION: Relevant amino acid residues in SEQ ID NO: 1 from
            1 to 119 in WO 95/04819
     34 <300> PUBLICATION INFORMATION:
     35 <301> AUTHORs: HOTTEN, Gertrud
             NEIDHARDT, Helge
     37
             PAULISTA, Michael
38 <302> TITLE: NEW GROWTH/DIFFERENTIATION FACTOR OF THE TGF-BETA
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RAW SEQUENCE LISTING DATE: 02/26/2001 PATENT APPLICATION: US/09/068,253 TIME: 16:41:00

Input Set : A:\19624051.app

Output Set: N:\CRF3\02262001\1068253.raw

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MAR 0 5 2001

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66 Pro Thr Cys Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe
                                      90
                                                                       TECH CENTER 1600/2900
 69 att gac tot goo aac aac gtg gtg tat aag cag tat gag gac atg gtc
                                                                336
 70 Ile Asp Ser Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val
              100
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 73 gtg gag tcg tgt ggc tgc agg
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 74 Val Glu Ser Cys Gly Cys Arg
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 90 Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu
           35
                              40
 93 Gly Leu Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His
                          55
 96 Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro
                      70
                                         75
 99 Pro Thr Cys Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe
                                      90
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131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Description of Artificial Sequence:
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(oligonucleotide





RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/068,253

DATE: 02/26/2001 TIME: 16:41:00

Input Set : A:\19624051.app

Output Set: N:\CRF3\02262001\I068253.raw

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- 138 <221> NAME/KEY: misc_feature
- 139 <222> LOCATION: Complement((1)..(26))
- 140 <223> OTHER INFORMATION: PCR reverse primer for isolating mature-type MP52
- 142 <400> SEQUENCE: 4
- 143 cgtcgactac ctgcagccac acgact





VERIFICATION SUMMARY
PATENT APPLICATION: US/09/068,253

DATE: 02/26/2001 TIME: 16:41:01

Input Set : A:\19624051.app

Output Set: N:\CRF3\02262001\1068253.raw

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